

FIG. 1

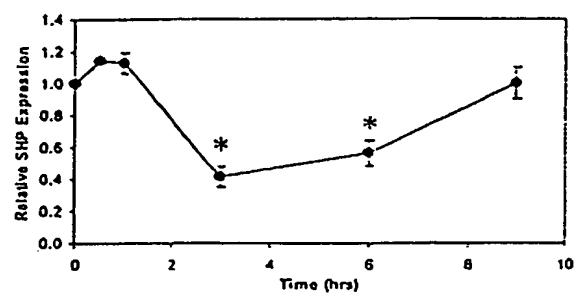


FIG. 2

FIG. 3a

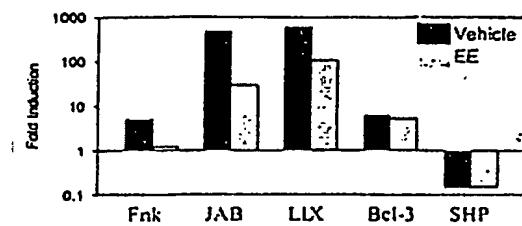


FIG. 3b

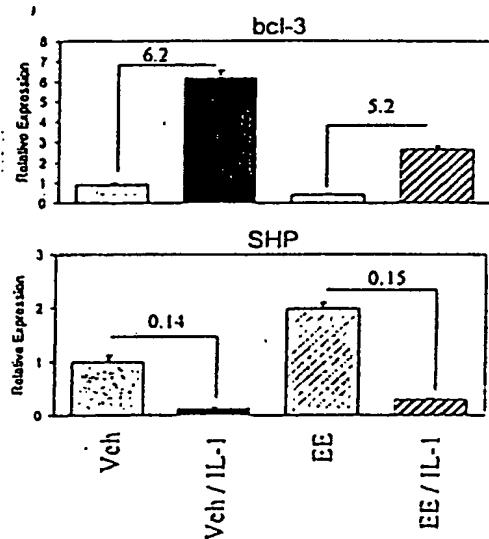


FIG. 3c

FIG. 4a

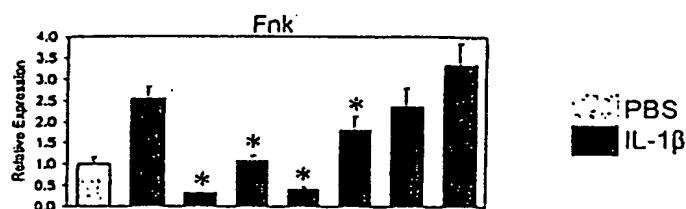


FIG. 4b

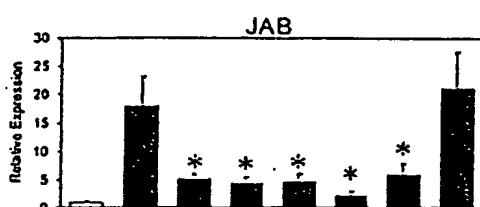


FIG. 4c

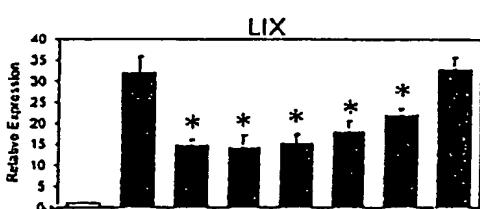


FIG. 4d

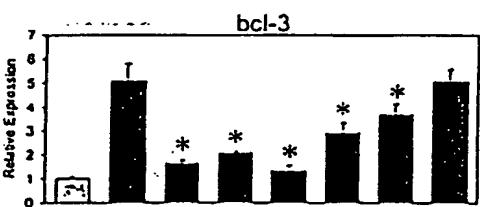


FIG. 4e

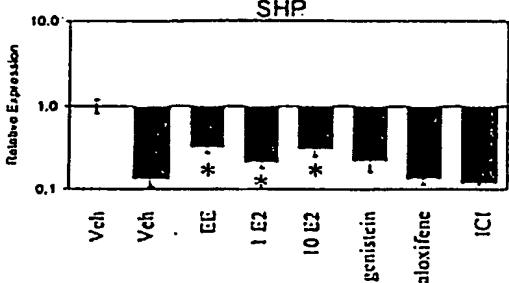


FIG. 5a

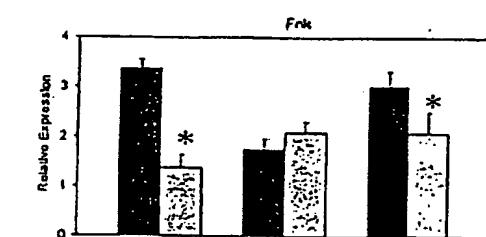


FIG. 5b

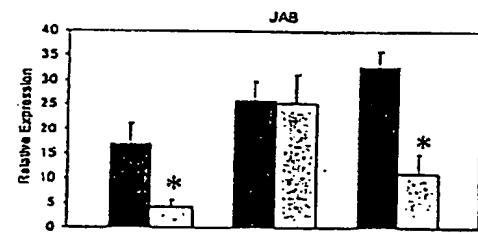


FIG. 5c

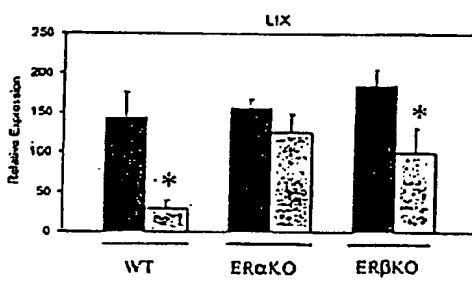


FIG. 5

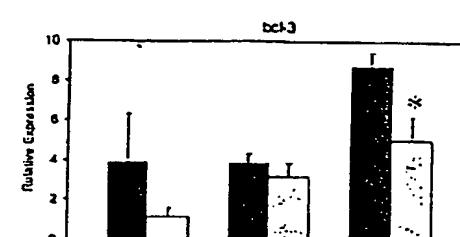
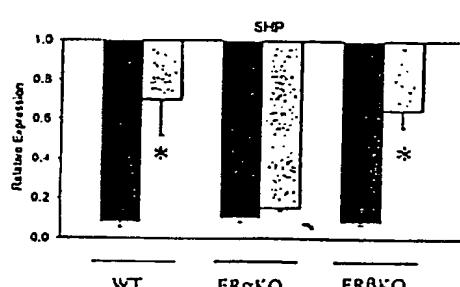


FIG. 5



■ Vehicle
■ EE

FIG. 6a

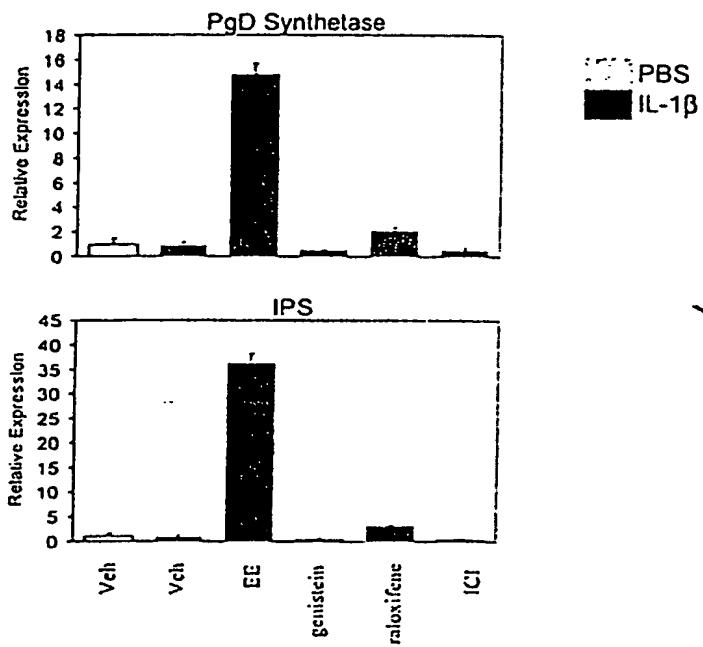


FIG. 6b

FIG. 7a

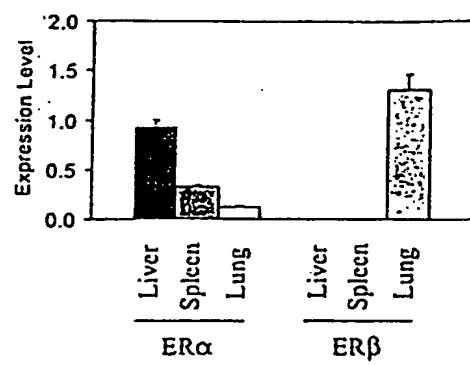


FIG. 7b

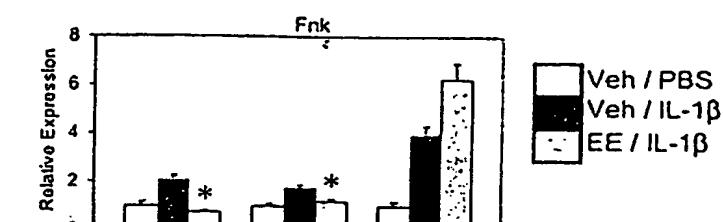


FIG. 7c

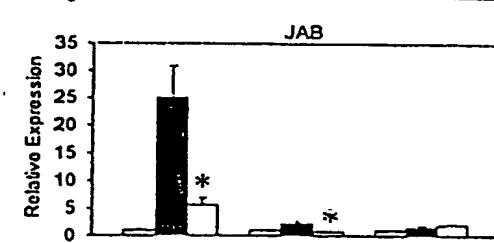


FIG. 7d

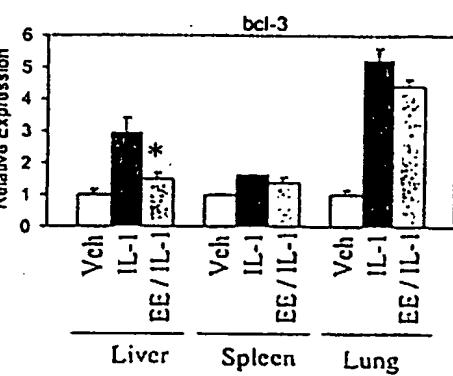
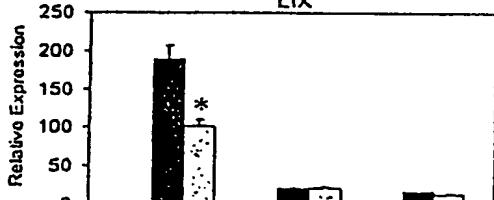


FIG. 7e

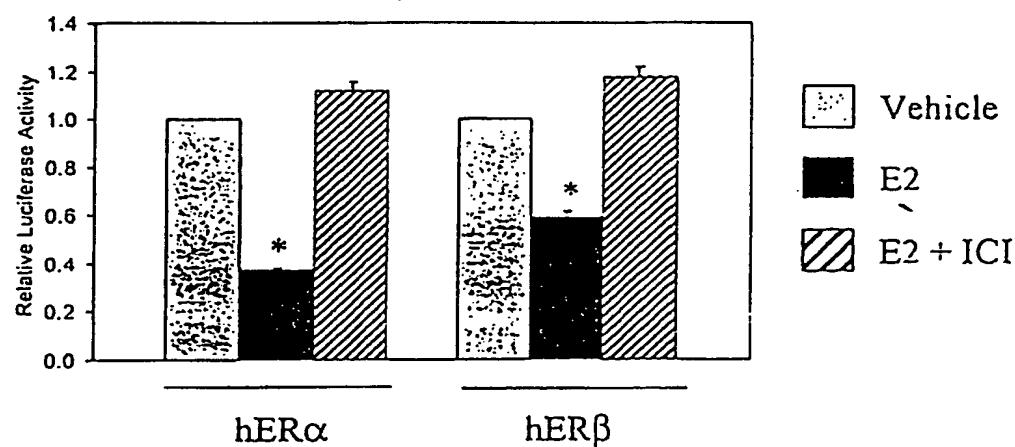


FIG. 8

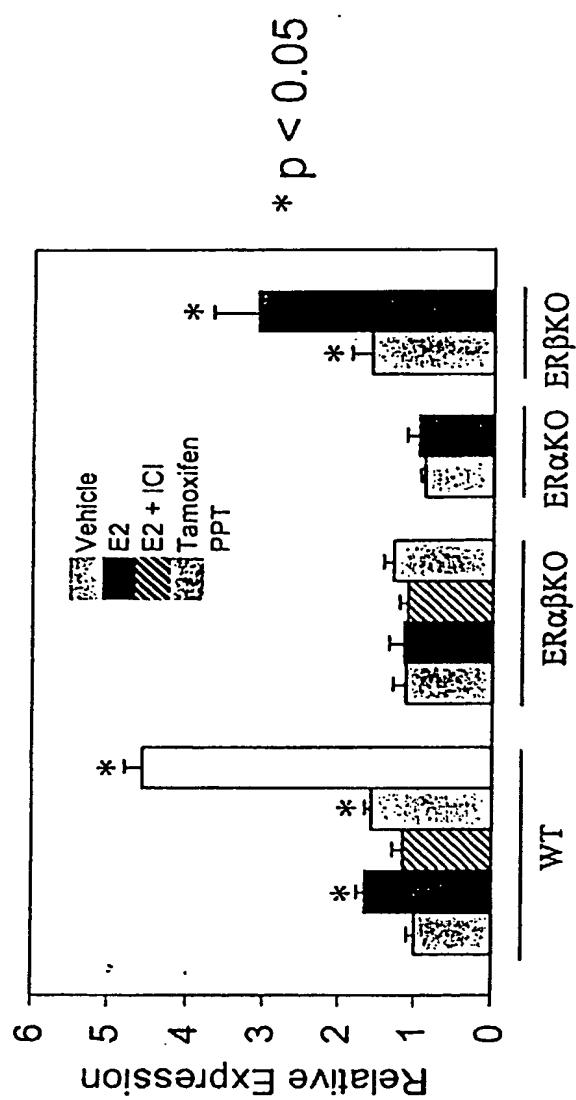
ER α Regulates SHP Expression in Mouse Liver

FIG. 9

Estrogen Regulates SHP in the Rat

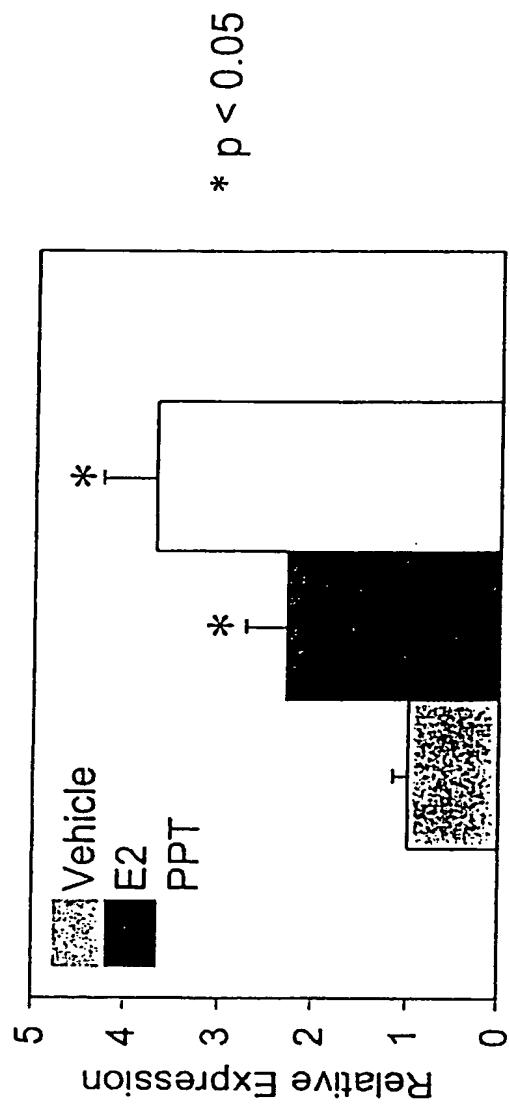


FIG. 10

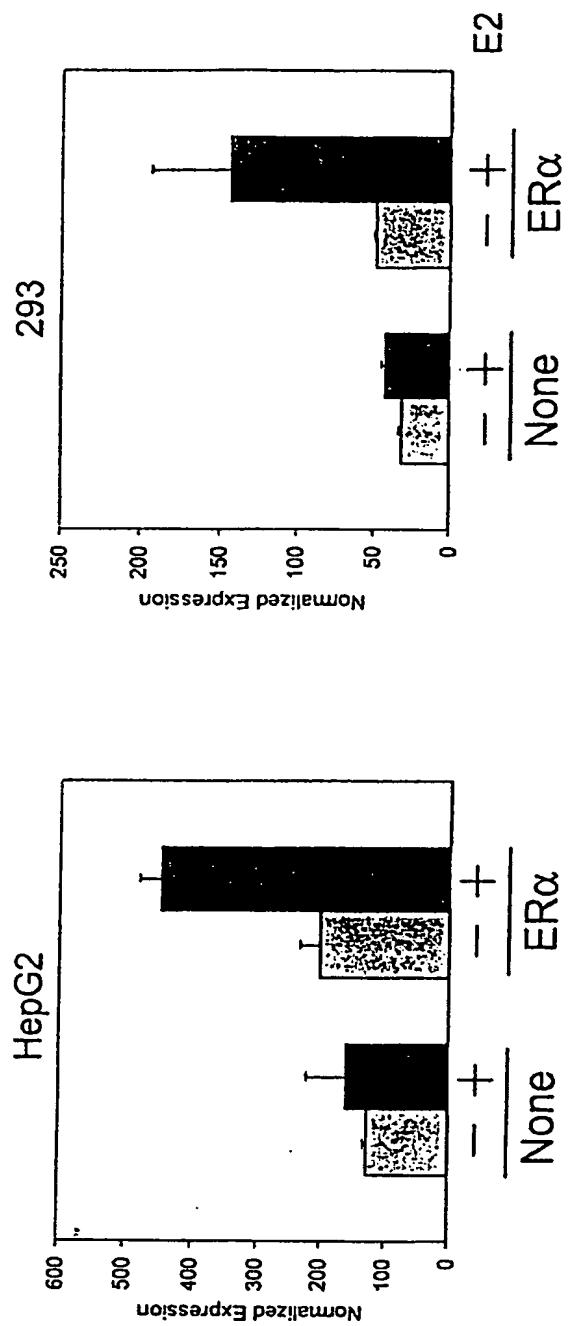
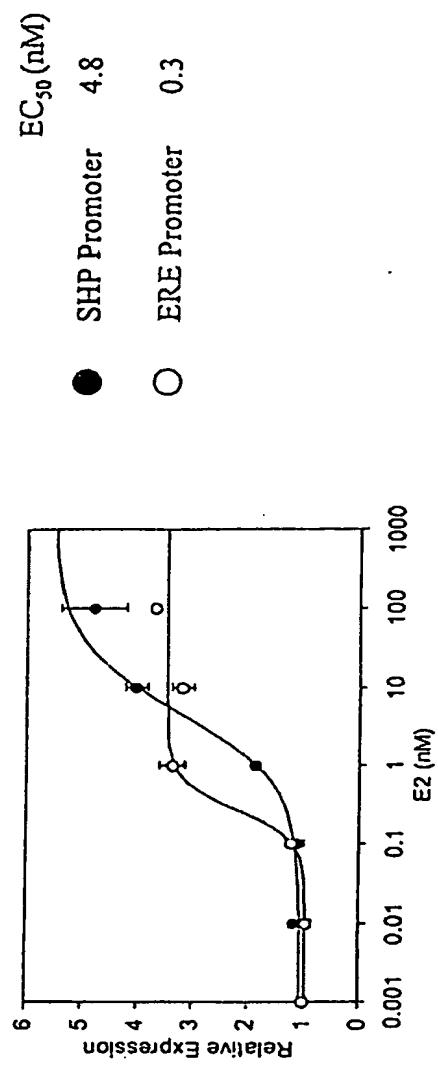
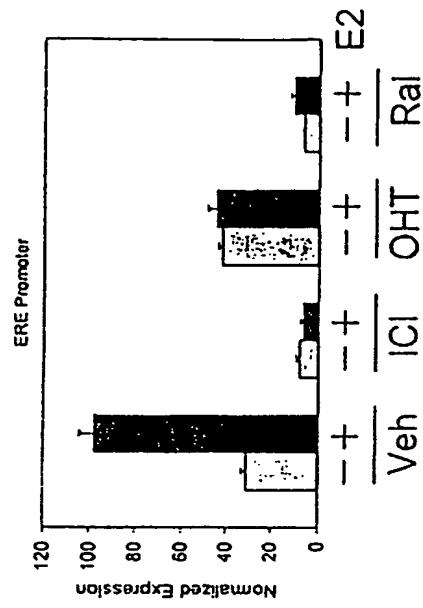
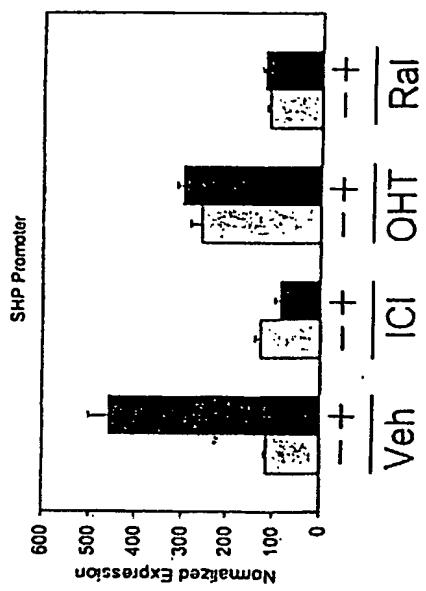
ER α Regulates hSHP Promoter Activity in Human Cells

FIG. 11a

FIG. 11b

ER α Regulates hSHP Promoter Activity in 293 Cells

Mapping the E2 Response Element in 293 Cells

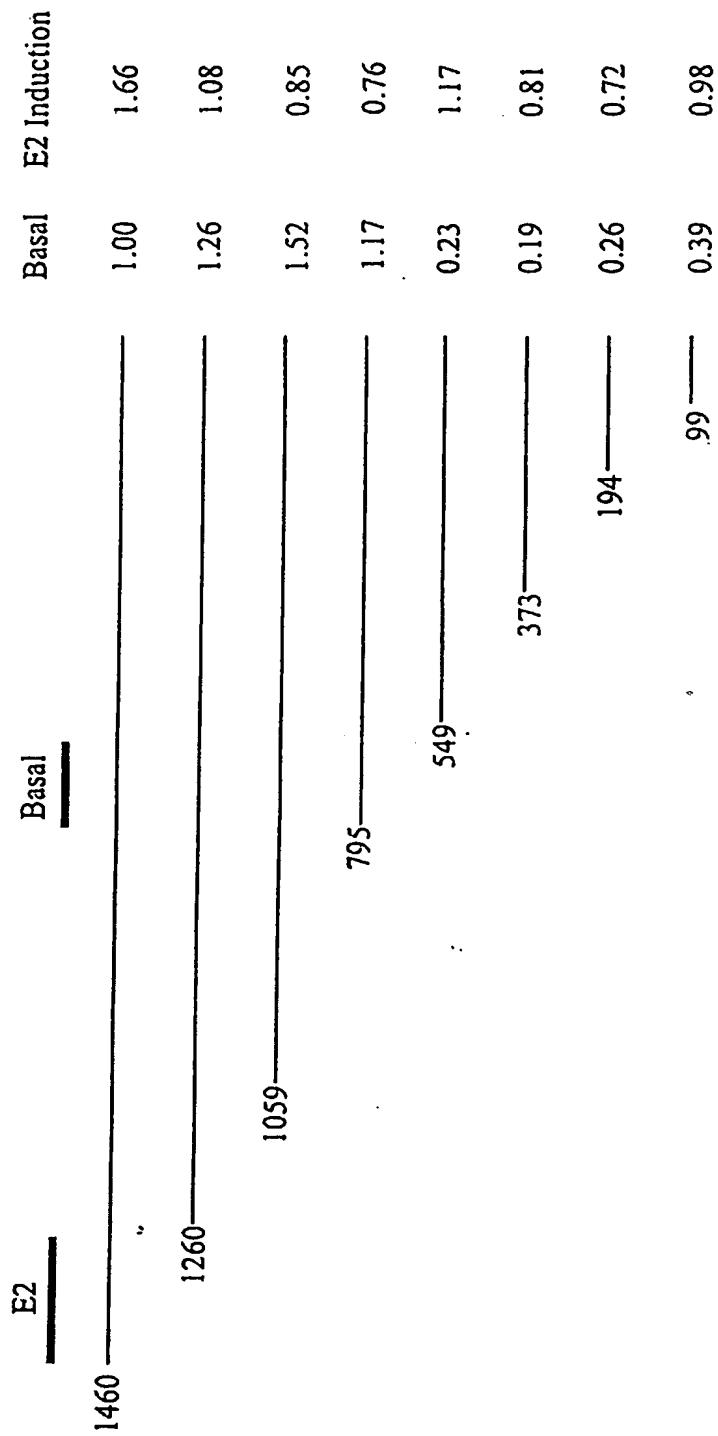


FIG. 13

ER Induction of SHP Fails to Repress CYP7A1 and CYP8B1

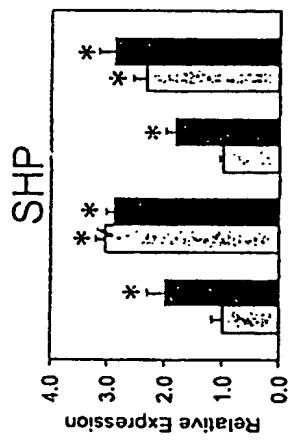


FIG. 14a

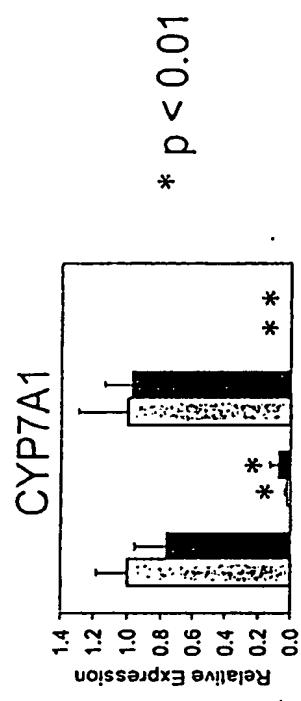


FIG. 14b

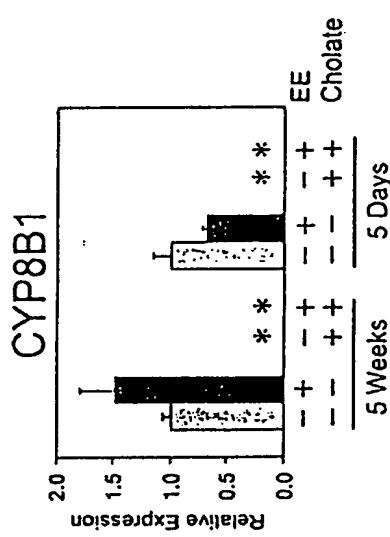


FIG. 14c

Cholate Repression of CYP7A1 and CYP8B1 Does Not Require SHP Induction

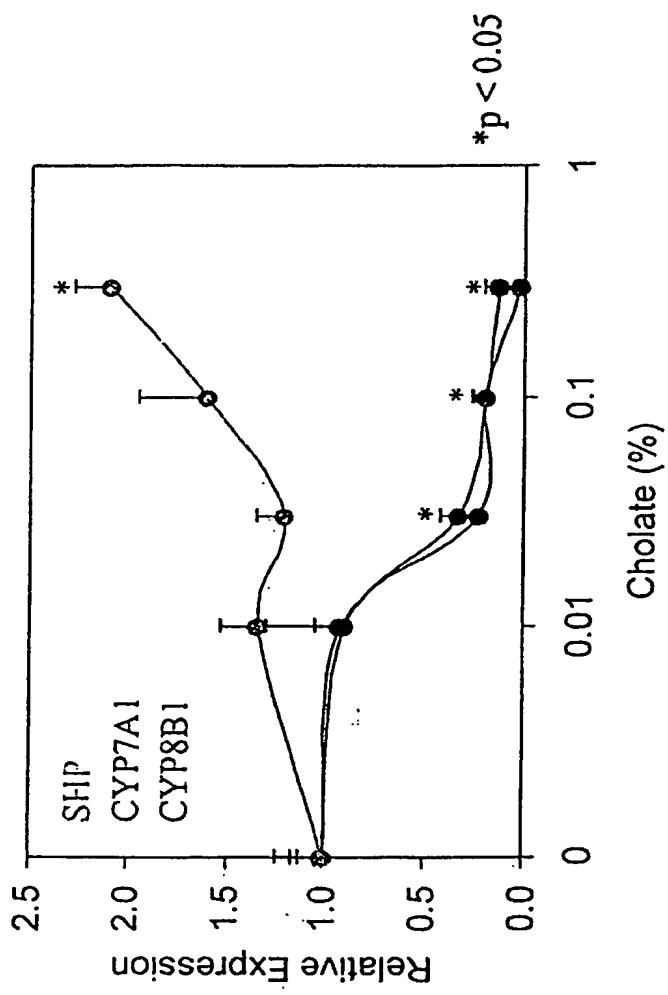


FIG. 15

Titering Shp/pSI against Cyp8B1 promoter driven by HNF4/pSI in HepG2

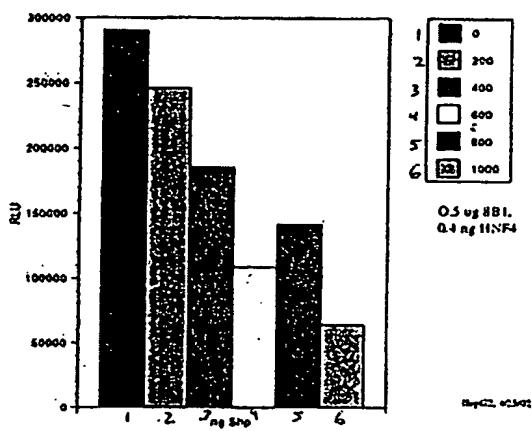


FIG. 16

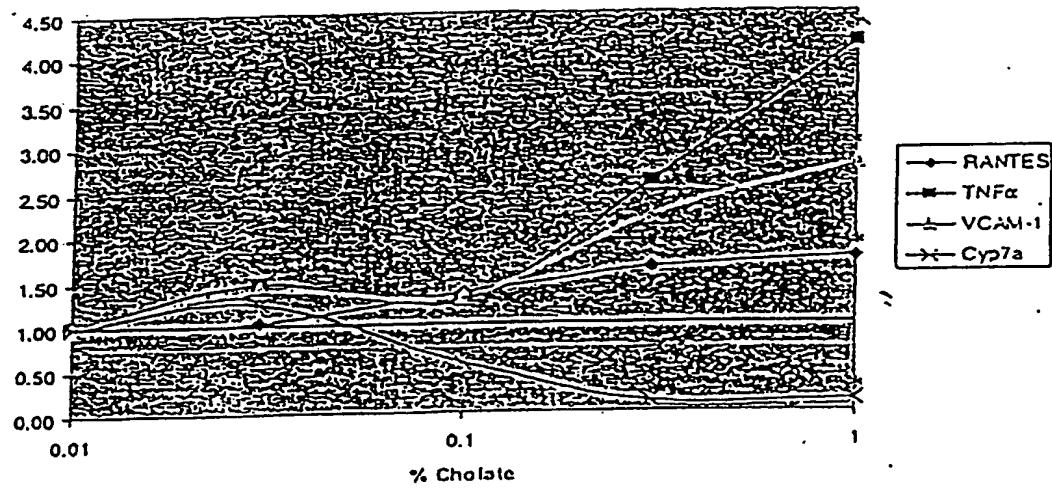


Fig. 17

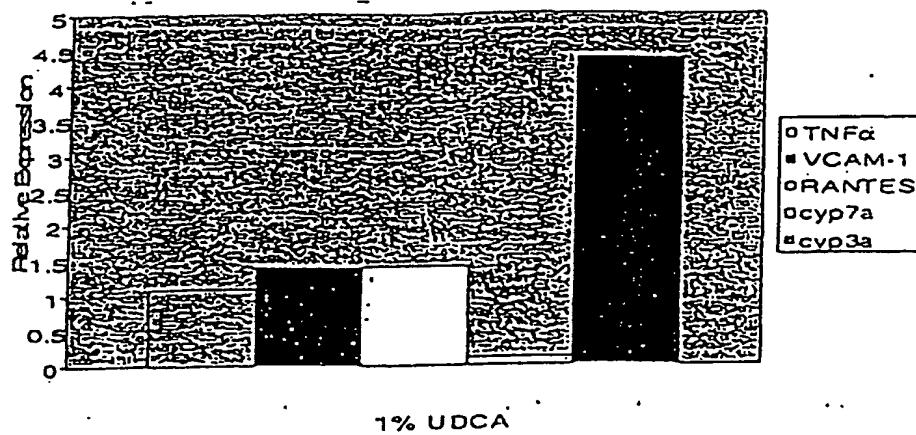


Fig. 18a

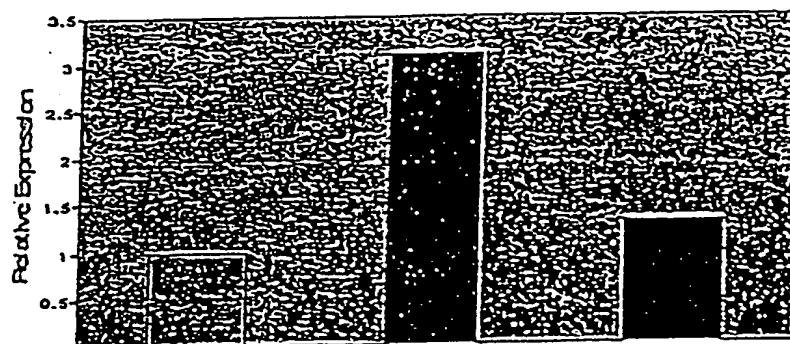


Fig. 18b

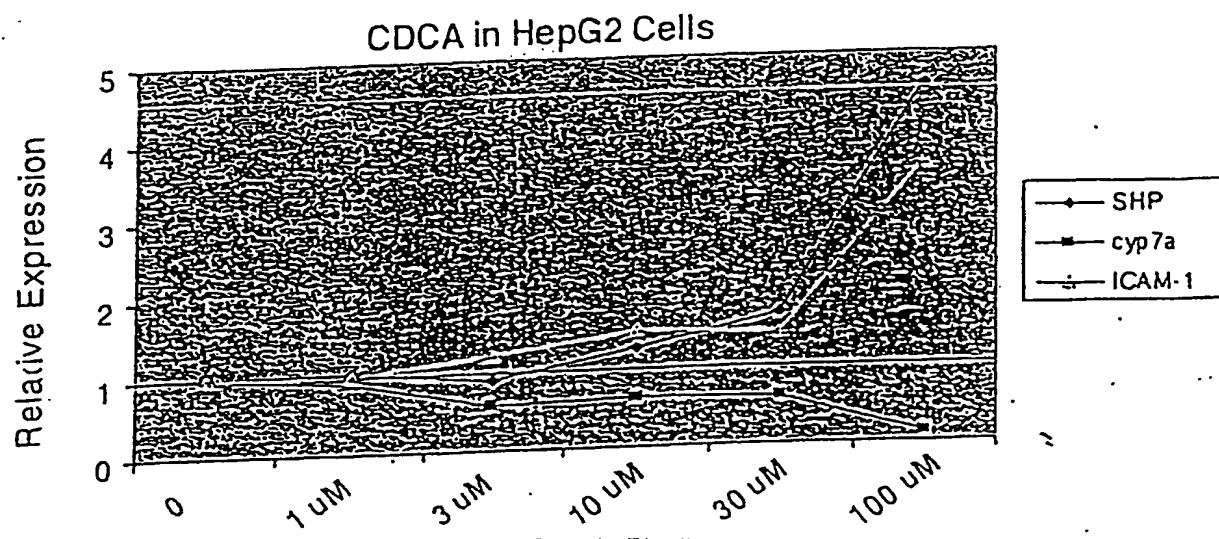


Fig. 19

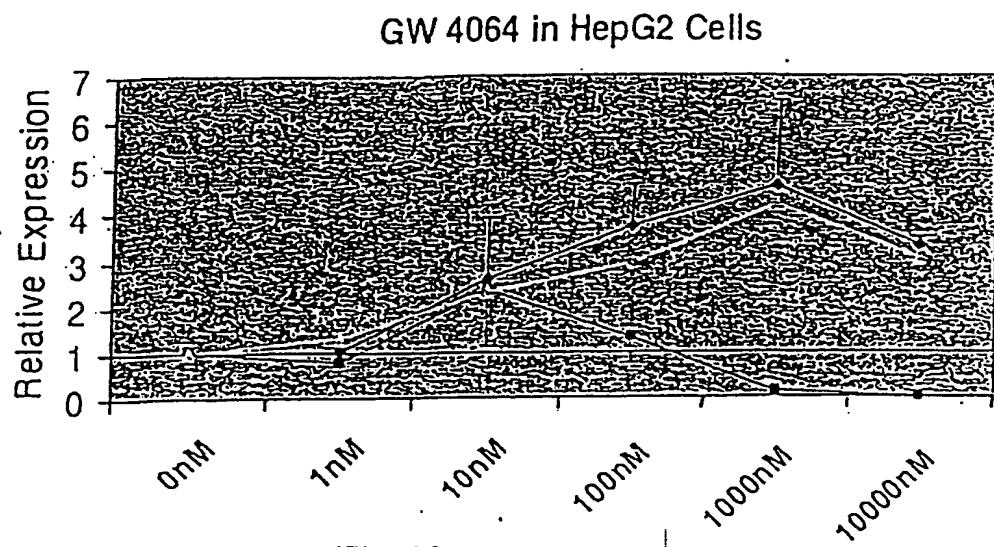


Fig. 20a

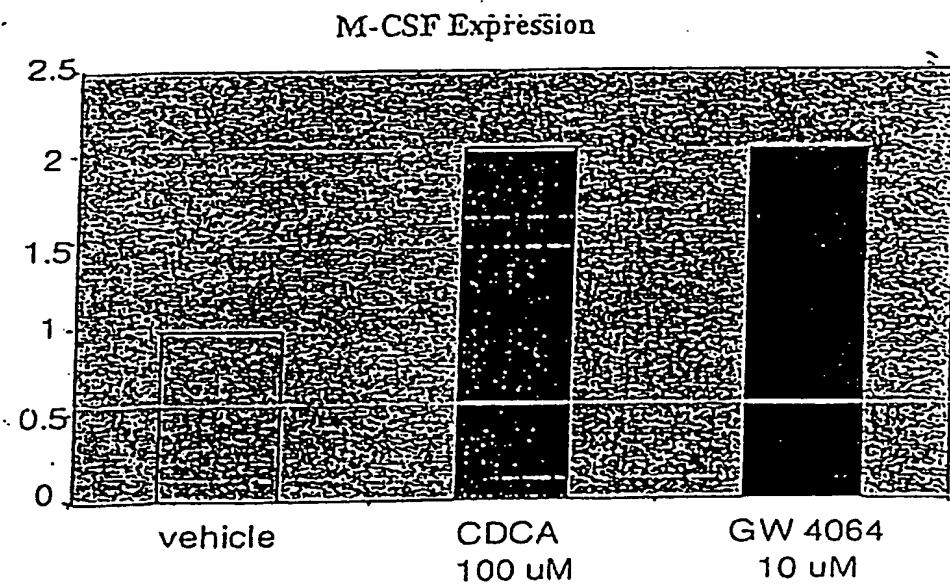


Fig. 20b

Inflammatory Gene Expression is Dependent upon Cholate

FIG. 21a

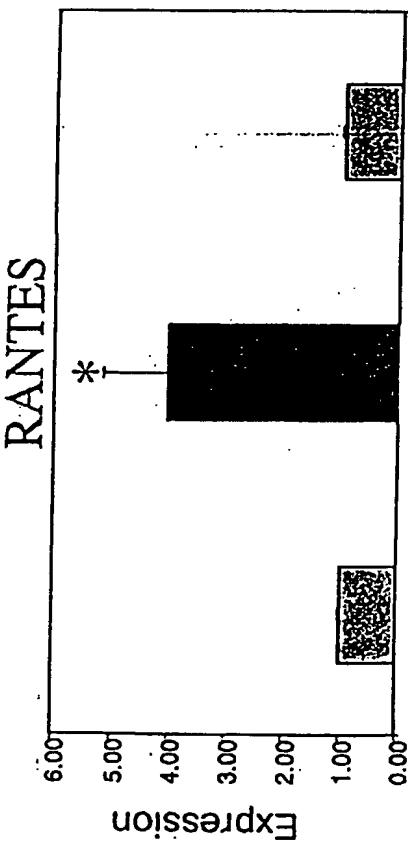


FIG. 21b

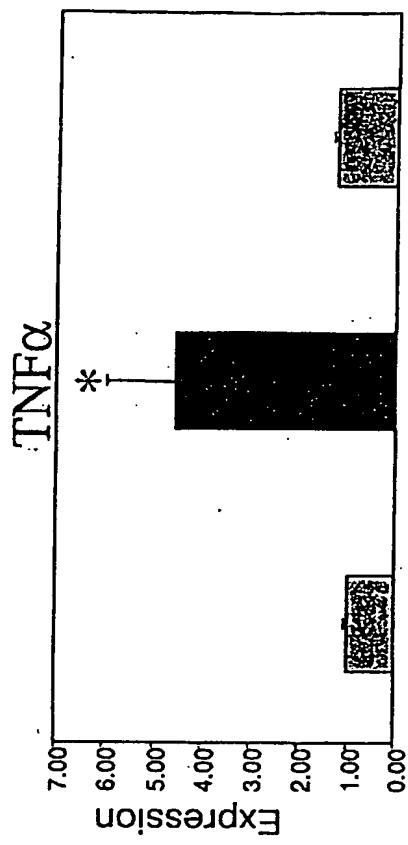


FIG. 21c

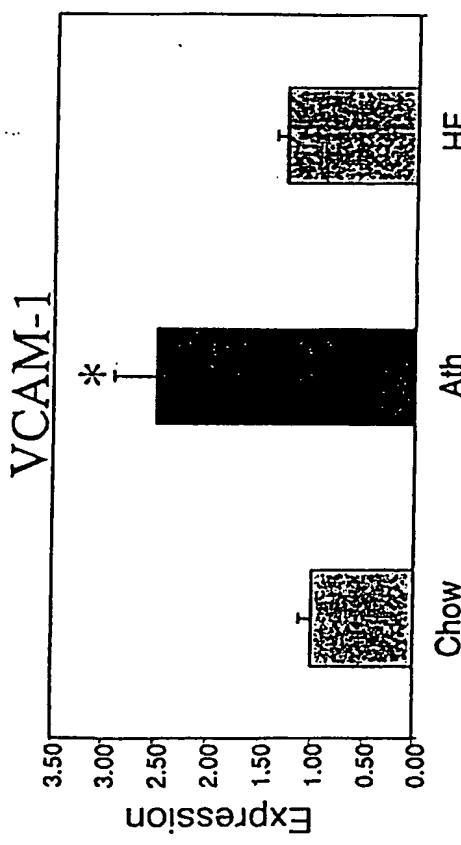


FIG. 21d

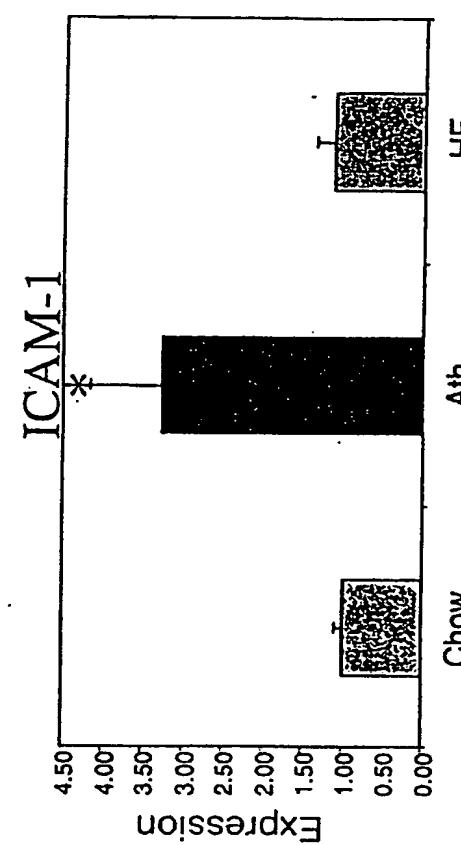


FIG. 21d

Acute Cholate Treatment Induces Inflammatory Gene Expression in a Dose
Dependent Fashion

FIG. 22a

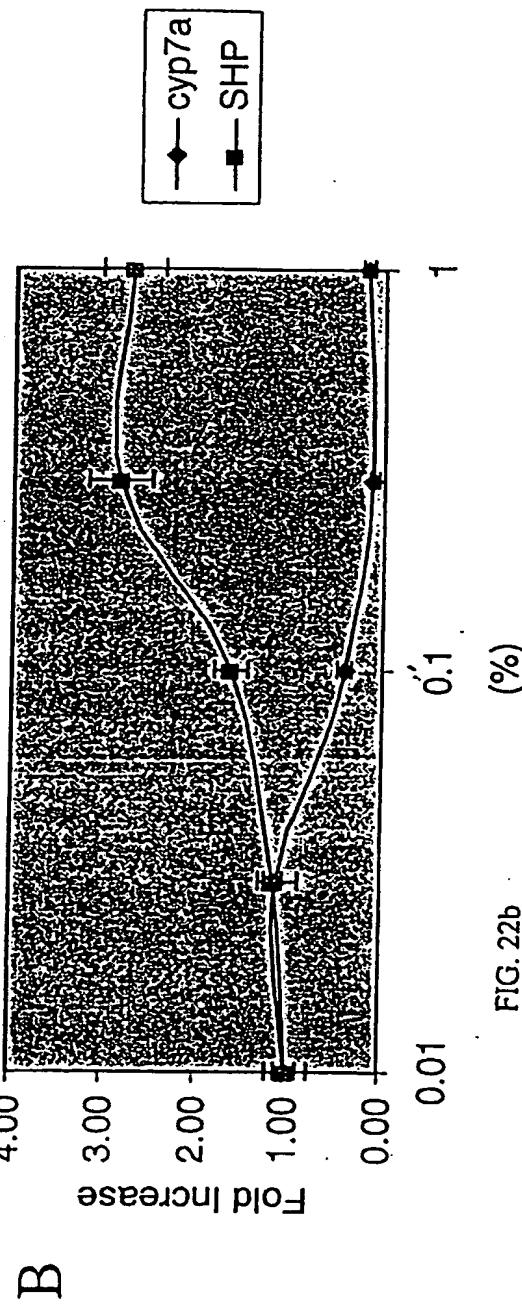
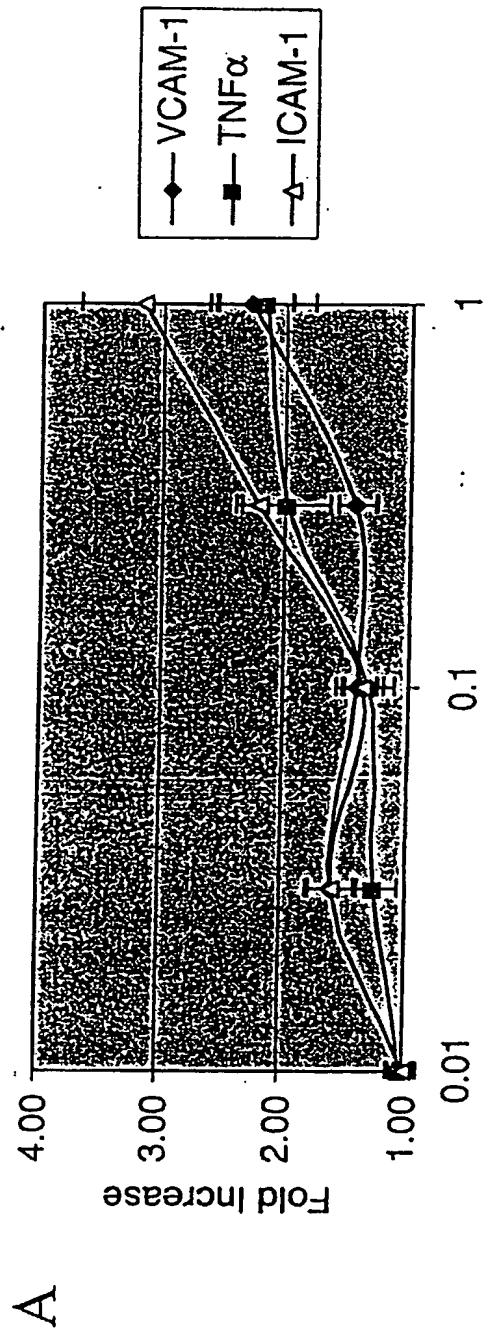
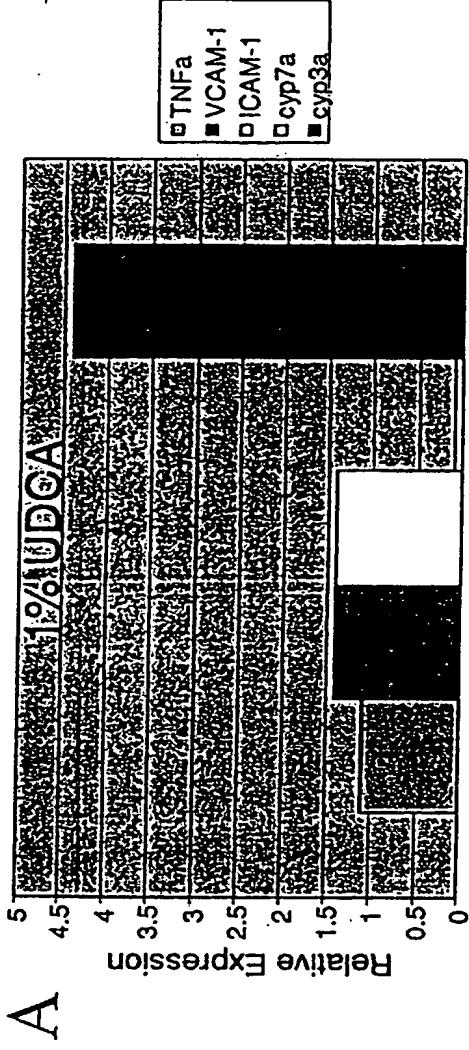


FIG. 22b

UDCA Does Not Induce Inflammatory Gene Expression

FIG. 23a



B

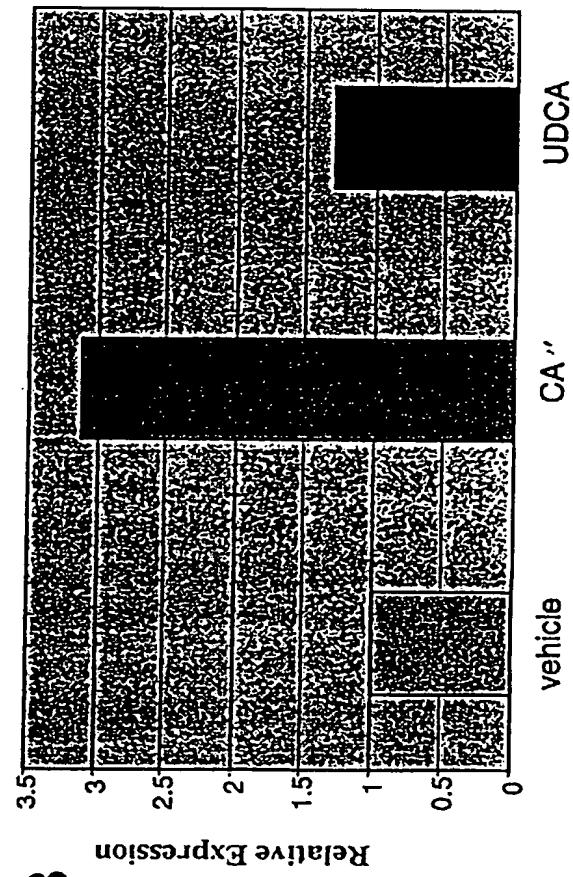


FIG. 23b

FXR Agonists Induce ICAM-1 Expression in HepG2 Cells

FIG. 24a

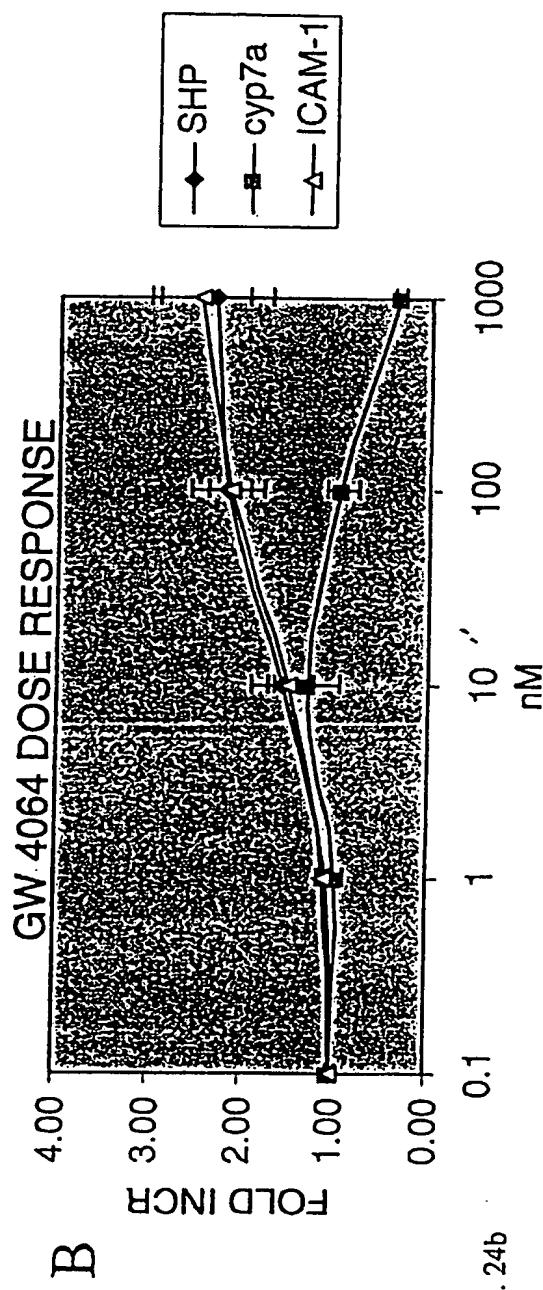
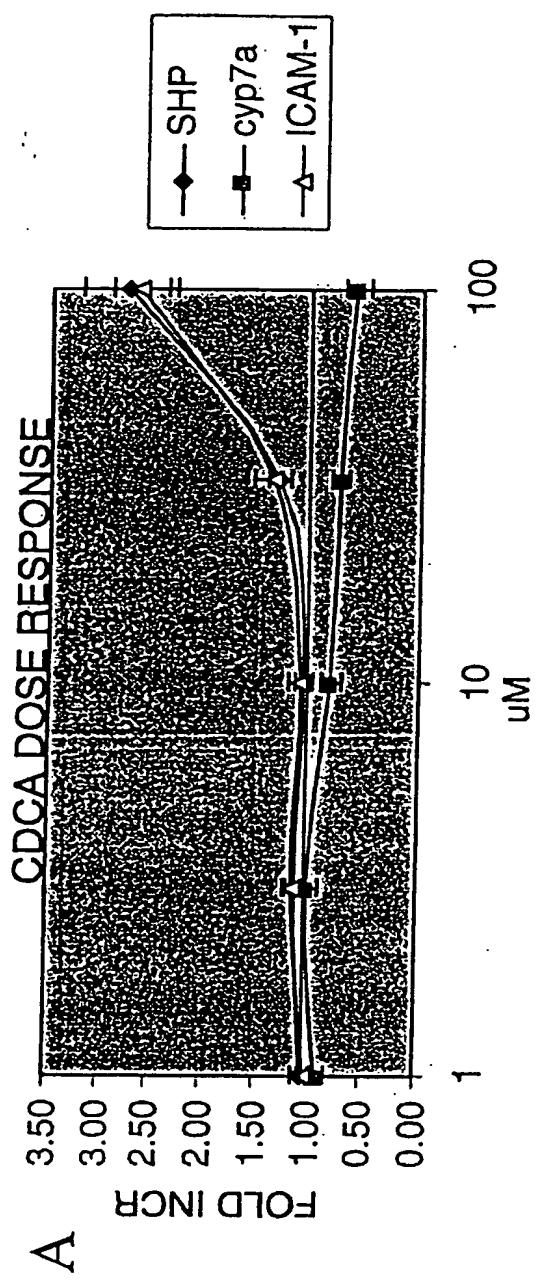
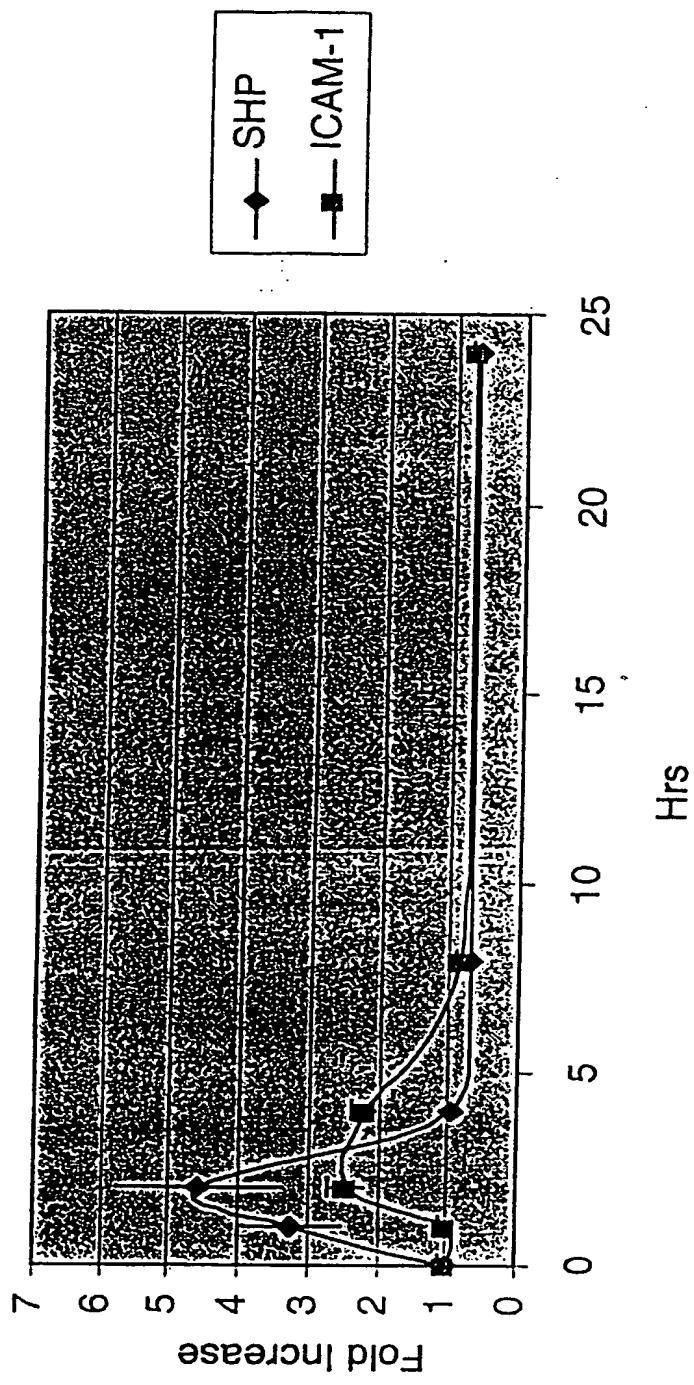


FIG. 24b

The FXR Agonist, GW 40664, Induces ICAM-1 Expression *in vivo*

FIG. 25



The FXR Agonist, GW 4064, Induces ICAM-1 Promoter Expression

FIG. 26

